# From Response to Recovery to Resilience: Hurricane Harvey Update JANUARY 18, 2018

# This disaster was unprecedented; so will be the recovery effort

### Hurricane Harvey is the worst rainfall disaster in US history

Harvey is a 1,000-year flood event unprecedented in scale

Harvey is one of the costliest disasters in U.S. history, and most of the victims have no flood insurance

- Major News Outlets, Aug 2017



**Historic flooding:** 2.6K miles of City roads under water



**Homes hit hard:** >311,000 households impacted

## We're building forward, not just building back

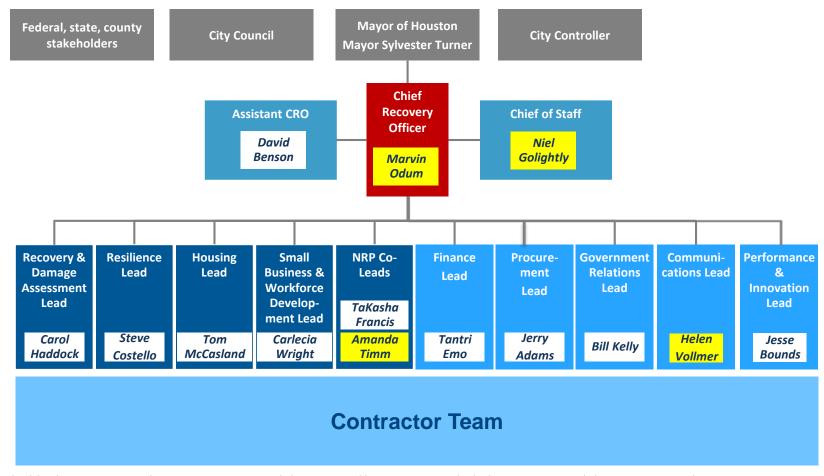
The mission of the recovery effort is to secure and deploy disaster resources to...

- accelerate Houston's recovery,
- strengthen Houston resilience, and
- enhance the quality of life and economic vitality of Houston and its people.

"This is a defining moment for the city of Houston. It's not enough for us just to rebuild in the same way, in the same place. If we do that, then we will miss the mark and quite frankly we will miss the opportunity this storm has afforded us."

-- Mayor Turner

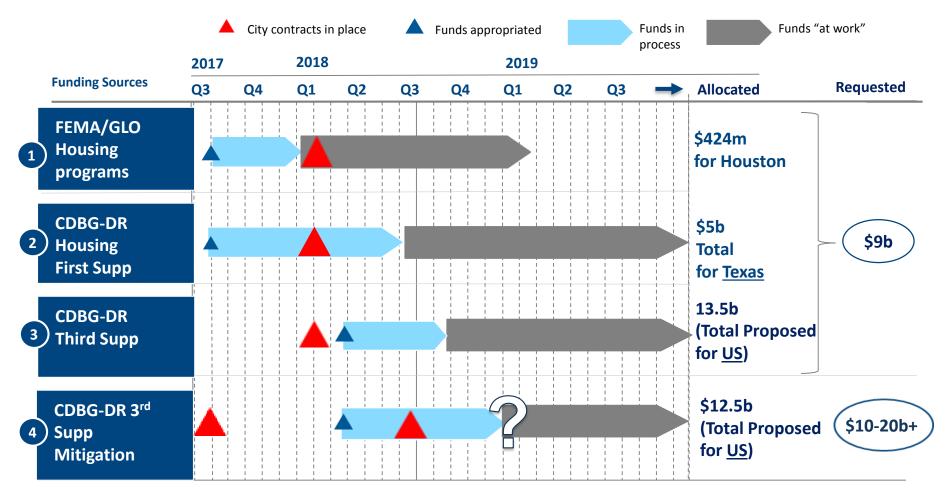
# We've assembled a team geared to managing a multi-billion dollar recovery



## Moving on multiple fronts



## Recovery spending plan: Funding *uncertainty* drives planning *complexity*



Note: These are the sources of recovery funding managed by the City of Houston. These need to be coordinated and aligned with housing, resilience and flood mitigation projects managed by the Army Corps of Engineers, Harris County Flood Control District, other regional jurisdictions, private foundations and commercial capital.

#### Multiple strategies for securing, stretching, deploying resources



#### **Scale & Choices**

- Funding need is massive: "Fair share" of federal DR funds critical (TX state advocacy to fund for success)
- Even then, there will not be enough money for everything – need to make hard choices in face of high uncertainty (policy matrix, planning for range of outcomes)
- Blending spending priorities with policy choices. Flood Plain designation, buyouts, building codes, resilience planning to protect homes, businesses and city assets.
- Seeking and deploying innovative technologies to enhance modeling, mitigation, early warning, etc.



#### **Negotiation & Compliance**

- Damage Assessment ongoing: Conducting detailed inspections with FEMA
- Critical to ensure reimbursement requirements are met (via MPM performance, procurement process)
- Working with FEMA on intelligent strategies for resilience, versus simple repairs (25% of projects)
- Collaborating with county and state on major infrastructure projects (Reservoir, bayou projects, Lake Conroe & SJRA, Coastal Spine, infrastructure consolidation, etc)

#### Recovery spending plan: Funding uncertainty drives planning complexity



#### **Cash flow & Timing**

- Matching funding inflows and outflows will be a challenge (request for revolving loan from State)
- Goal to ensure hammers swinging as soon as money arrives (contracts and policy choices in place in timely fashion)
- Working with GLO, FEMA and HUD to accelerate arrival of funds (Direct allocation and/or MOD)

# Neighborhood Resilience Program to accelerate recovery and strengthen resilience by providing...

More, Better, Faster Recovery Services for impacted Houstonians Stronger, Safer, Smarter Houston neighborhoods

...In a way that respects the diverse cultures, circumstances and needs of Houston's Neighborhoods



# Create a "largest-ever" Volunteer Program that brands Recovery



Organized by Neighborhood



**Efficient** 



Leverage/assist non-profits



~6 month program



- Millions of volunteer hours targeted at high-need neighborhoods
- Ensures CoH's FEMA "A" and "B" 10% match requirement fulfilled
- Recovery Office working with FEMA to expand match-eligible programs